

3033 North Third Street, Suite
1010 Phoenix, Arizona 85012
Office 602-630-8255
Fax 602-235-3107

Monica Luckritz
Manager - Policy and Law

RECEIVED
200 MAR 19 P 3:30

ARIZONA CORPORATION COMMISSION
EXHIBIT CONTROL



0000096343

ride the light

Qwest

March 19, 2001

Lyn Farmer
Chief Hearing Officer
Arizona Corporation Commission
1200 West Washington Street
Phoenix, AZ 85007

Arizona Corporation Commission
DOCKETED

MAR 19 2001

DOCKETED BY	<i>Mal</i>
-------------	------------

Dear Ms. Farmer:

RE: Docket No. T-00000A-00-0194

Enclosed please find replacement exhibits for Joseph Craig. The exhibit headers have been changed to match his testimony. Please replace the existing pages with the attached and destroy the old ones.

If you have questions, please contact me.

Sincerely,

Monica Luckritz
(gm)

Enclosures

EXHIBIT A

LOCAL CALL DIAGRAM

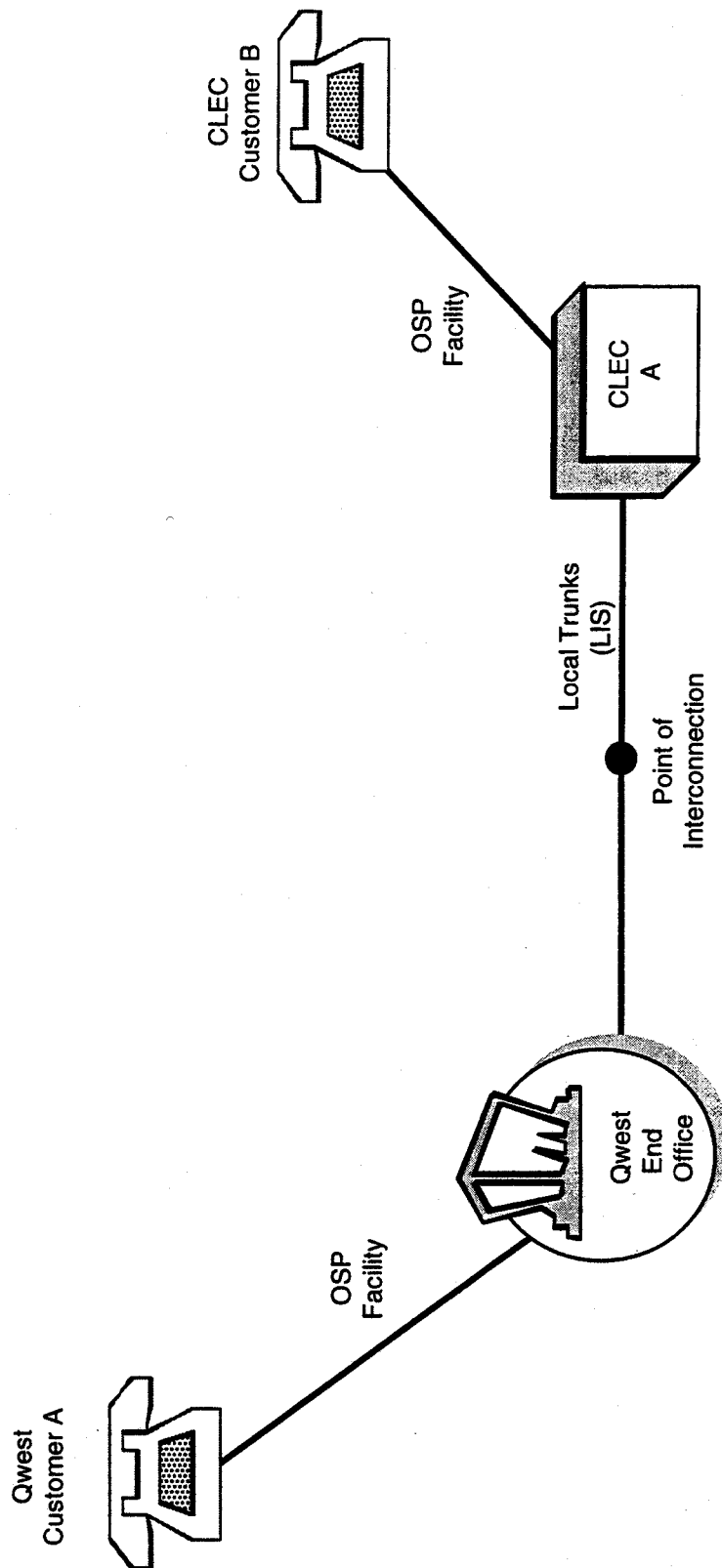
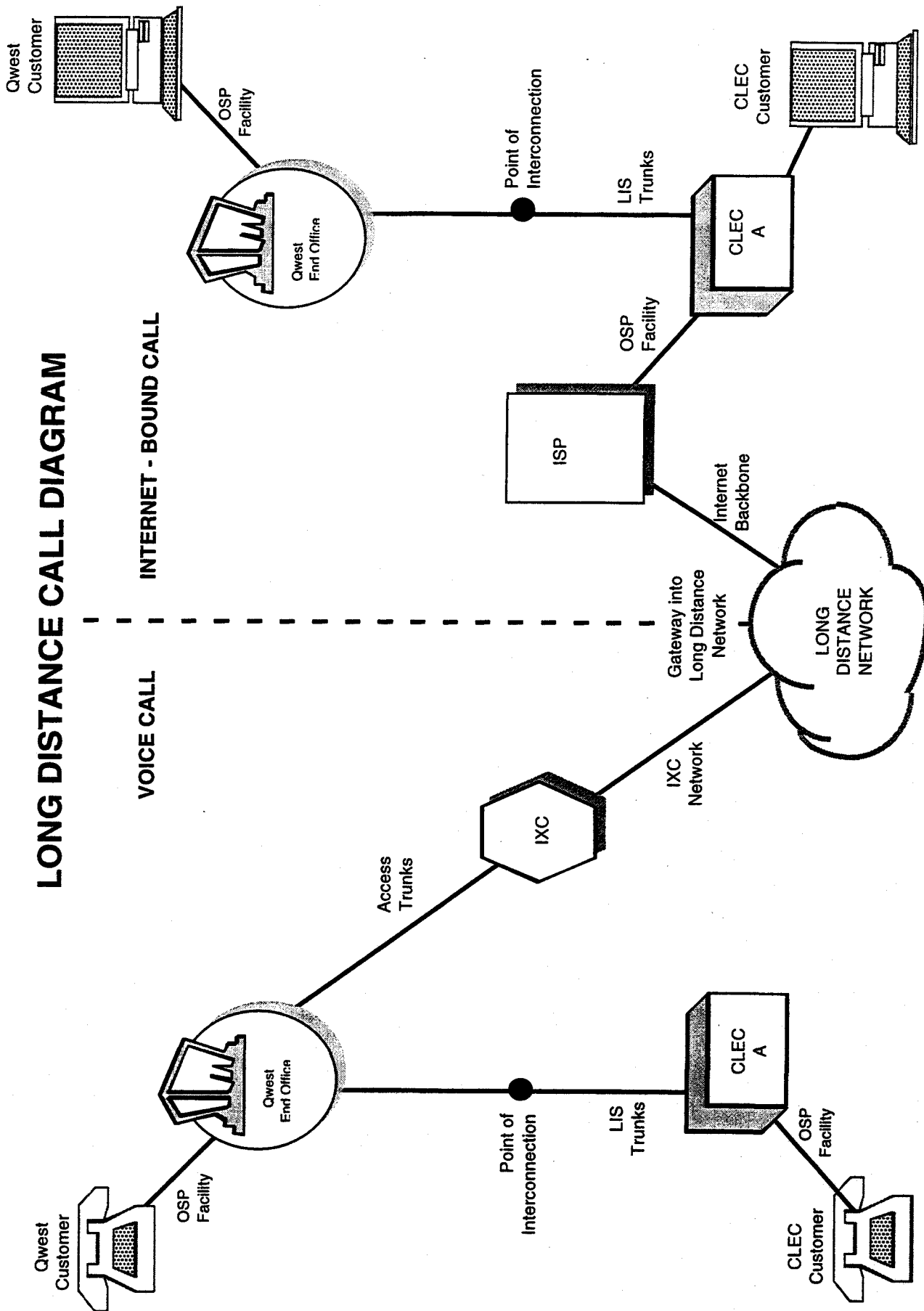


EXHIBIT B

LONG DISTANCE CALL DIAGRAM



UNITED STATES

NUMBER OF AMERICANS ONLINE -- HISTORICAL:

- 1993 – 90,000 (U.S. Internet Council, Apr. 1999).
- 1997 – 19 million (Stratis Group, Apr. 1999).
- 1998 – 68 million in 1998. (Strategis Group, Nov. 1999).
- 1998 – 84 million from home or work (Stratis Group, Apr. 1999).
- 1998 – 37 million DAILY (Stratis Group, Apr. 1999).
- 1999, Nov. – 118.4 million (Cyberatlas/Nielsen Net Ratings, Dec. 1999).
- 1999, Nov. – 74 million actually went online (Cyberatlas/Nielsen Net Ratings, Dec. 1999).
- U.S. ONLINE POPULATION – CURRENT:

ONLINE FIRM AGE USAGE STUDY DATE

134.2 M Nielsen NetRatings 2+ Ever used May 2000
108.0 M Angus Reid Group 18+ Past 30 days Dec. 1999
106.0 M The Strategis Group 18+ Ever used Mar. 2000
104.5 M Jupiter 2+ Past 30 days Dec. 1999
101.5 M IDC All Past 30 days Dec. 1999
90.5 M Mediamark Research 18+ Past 30 days Spring 2000
75.8 M Cyber Dialogue 18+ Past 30 days Mar. 2000

- AMERICAN HOUSEHOLDS ONLINE
- 1995 – 14.9 million households (The Strategis Group, Feb. 2000).
- 2000, Jan. – 46.5 million households (The Strategis Group, Feb. 2000).
- 2004 – 90 million by the end of 2004. (The Strategis Group, Feb. 2000).
- PERCENTAGE OF AMERICANS ONLINE:
- 1998 – 28% (IDC, Oct. 1999).
- 1998 – 42% of the U.S. adult population. (Stratis Group, Apr. 1999)
- 2003 – 62% (IDC, Oct. 1999).
- 2003 – 67% (Yankee Group, 1999).
- 2005 – 91% (Strategy Analytics, Dec. 1999).
- NEW USERS Q1 2000: More than 5 million Americans joined the online world in the first quarter of 2000, which averages to roughly 55,000 new users each day, 2,289 new users each hour, or 38 new users each minute. (CyberAtlas / Telecommunications Reports International, May 2000).
- US INTERNET USAGE: Average US Internet user went online 18 sessions, spent a total of 9 hours, 5 minutes and 24 seconds online and visited 10 unique sites per month. (Nielsen NetRatings, June 2000).
- WORK USAGE: On average, the American worker spends 35% of his/her workday on the computer and 23% of his/her workday on the Internet. (Heldrich Center for Workforce Development, Rutgers University, Feb. 2000).

- WORK USAGE: Those with Internet access at work spend 82% of online time on work-related functions. (Heldrich Center for Workforce Development, Rutgers University, Feb. 2000).
- U.S. WIRELESS USERS: 61.5 million Americans will be using wireless devices to access the Internet in 2003, up from 7.4 million in the US today (728% increase). (IDC Research, Feb. 2000).
- MOBILE DATA: Almost 80% of the US Internet population will access data from mobile phones in a year's time, up from the current figure of 3%. (Corechange, Inc & Cap Gemini USA, Apr. 2000).
- E-MAIL 1998: The U.S. Postal Service delivered 101 billion pieces of paper mail in 1998. Estimates for e-mail messages sent in 1998 range from 618 billion to 4 trillion. (U.S. Internet Council, Apr. 1999).
- E-MAIL 1999: There are 270 million e-mailboxes in the U.S. – roughly 2.5 per user. (eMarketer/ Messaging Online, Nov. 1999).
- U.S. INTERNET ADOPTION AMONG PC USERS: 81% of computer users go online, a 54% increase over 3 years ago. (eMarketer / Harris Interactive, Feb. 2000).
- EMAIL: Number of electronic mailboxes worldwide jumped 84% to almost 570 million in 1999, and should reach 1 billion by the end of 2001. (Messaging Online, Apr. 2000).
- TIME ONLINE, LIFETIME: Analysts forecast that netizens will spend 5.3 % of their lives on the Internet. (CyberDialogue, April 2000).

COMPUTER PENETRATION (AEA's CyberNation 2.0, April 2000):

- USA -- 159 million computers
- EU -- 135 million
- APAC -- 116 million in all of Asia-Pacific.
- CORPORATE EMAILS: In 2004, companies will send more than 200 billion e-mails. (Forrester Research, February 2000).
- DOWNLOAD SPEEDS IMPROVING: Average homepage took 4.73 seconds to download by the end of 1999, 27% faster than at the beginning of the year (6.49 seconds). (Keynote Systems, April 2000).
- NEW WEB PAGES: On average, more than 3 million Web pages were created every day in 1999. (IDC, Apr. 2000).
- WEB HITS/DAY 1999: U.S. web pages averaged one billion hits per day (aggregate) in October 1999. (eMarketer/Media Metrix, Nov. 1999).
- INCREASING CORPORATE USE OF NET: Commercial use of the Net by firms and organizations is doubling every year (The Delphi Group, Oct. 1999).

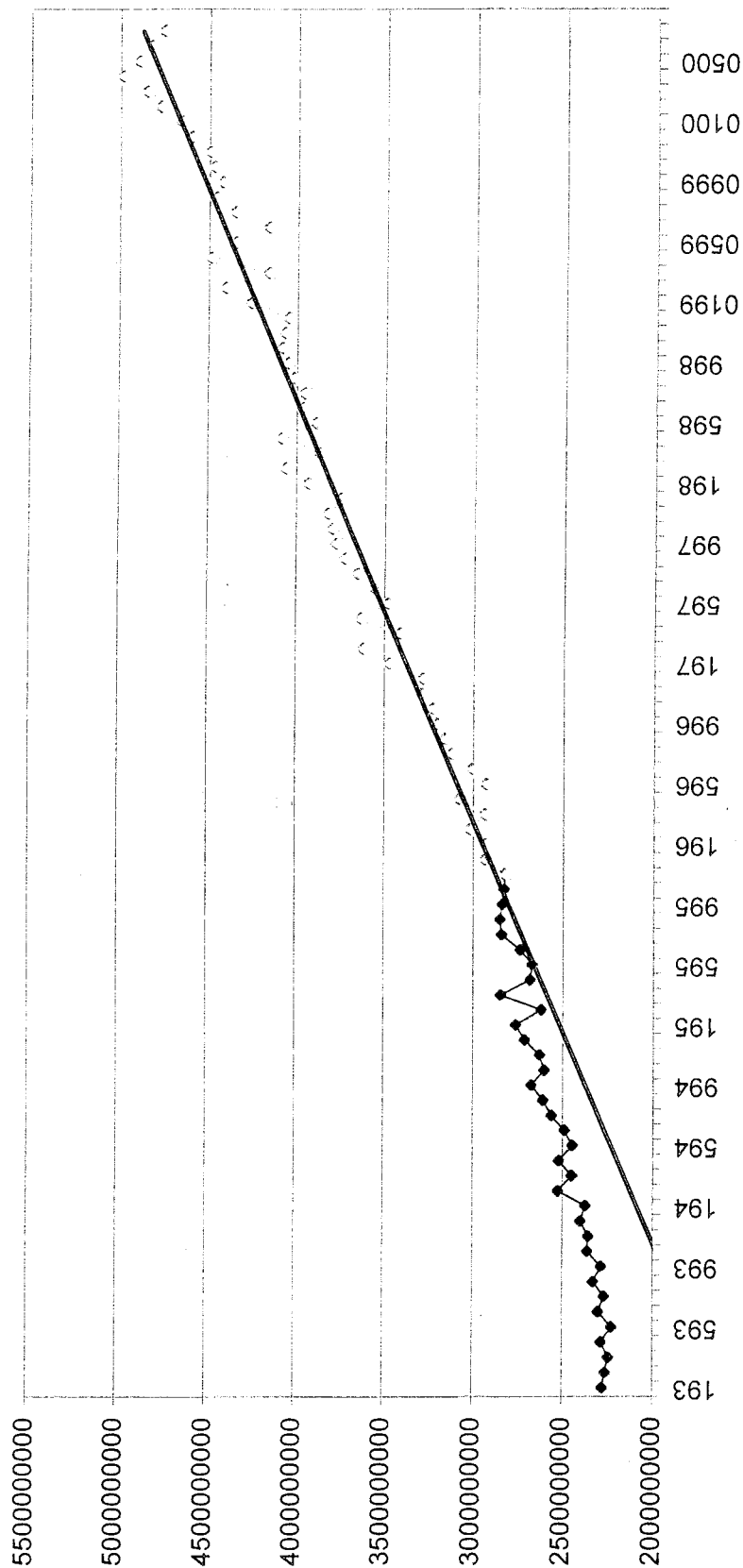
- HOURS ONLINE (Veronis, Suhler & Associates, Nov. 1999):
- 1997 – 28 hours per capita
- 1998 – 74 hours per capita
- 2003 – 192 hours per capita
- HOURS ONLINE: Americans watch an average of 1,610 hours per year of TV and listen to 992 hours of radio, compared with 1999 Internet usage predictions of from 74 hours per capita in 1998. (Veronis, Suhler & Associates, Nov. 1999).

HOW LONG TO REACH 30% PENETRATION? (U.S. Internet Council, Apr. 1999).

- Internet -- 7 years
- Television – 17 years
- Telephone – 38 years
- Electricity – 46 years.
- PENETRATION, CITIES: Five U.S. cities have reached 50% Internet penetration among their adult populations, including Washington DC, San Francisco, Austin, TX, Seattle/Tacoma, and Salt Lake City. (Scarborough Research, Oct. 1999).
- FREE ISPs: Free ISPs will be used by 13 million U.S. households by 2003 (13% of total online market), including by 8.8 million as primary Internet access. (Jupiter Communications, Dec. 1999).
- BUSINESS v. PERSONAL USERS: 54% of active U.S. Internet users are business users versus 46% who access the Web mainly for personal reasons. (eMarketer, 1999).

EXHIBIT D

AZ



Arizona Corporation Commission
Docket No. T-00000A-00-0194
Qwest Corporation
Direct Testimony of Joseph Craig
Exhibit JPC-5
March 15, 2001

REDACTED

Arizona Corporation Commission
Docket No. T-00000A-00-0194
Qwest Corportion
Direct Testimony of Joseph Craig
Exhibit JPC-6
March 15, 2001

REDACTED

HP.com Home



INVENT

SEARCH

ASSISTANCE

Company Information

Agilent Technologies

Jobs at HP

Investor Information

Drivers

HP Store

Find a Reseller

HP Products

HP Services & Support

Buy HP

Welcome to HP

United States



hp reinvents
printing and
imaging.
Click here to
learn more.

► Select Another Country

United States 

Solutions for:

- [E-services](#)
- [Home & Home Office](#)
- [Small Business](#)
- [Developers](#)
- [Government](#)

► Highlights

- [HP Increases Computing Mobility with New HP OmniBook 6000 Notebook PC](#)
- [HP Board Sets Record Date and Distribution Date for Agilent Stock Dividend](#)
- [More Highlights...](#)



HP Recognized
for Visionary Use
of Technology

Founding sponsor of



ES&S award

[HP.com Home](#)[HP Products](#)[HP Services & Support](#)[Buy HP](#)

Search

SEARCH

ASSISTANCE

[Start new search](#) [Search these results](#)

Search:

access7

[Help](#)[Advanced Search](#)

10

Hits per page

Tip: You can type in your query using plain language instead of just using keywords.

Example: Where do I download software drivers?

Results for: access7

Document count: access7 (313)

274 result(s), Top 100 sorted by relevance

[sort by date](#)[hide summaries](#)

1-10

HP Test & Measurement: HP ACCESS7 SYSTEM INSTALLED BY GTE TO MANAGE INTERCONNECTION AND TO ...

HP announces that GTE Network Services has deployed an HP acceSS7 system to analyze and manage network traffic with other telecom companies and to detect fraud on ...

64%

28 May 99

[Find Similar](#)

<http://www.tm.agilent.com/tmo/press/English/PRTME600805.html> - size 24.3K

HP Test & Measurement: HP'S ACCESS7 SYSTEM SELECTED BY NYNEX

Hewlett-Packard Company today announces that it has signed a deal with NYNEX Corporation to supply the acceSS7 network monitoring system.

62%

28 May 99

[Find Similar](#)

<http://www.tm.agilent.com/tmo/press/English/PRTME600701.html> - size 23.0K

HP Test & Measurement: AMERITECH INSTALLS HP ACCESS7 SYSTEM TO ENSURE SMOOTH DEPLOYMENT OF ...

HP announces that Ameritech Corporation has selected the HP acceSS7 system to centralize network operations, expedite network maintenance and management, and ...

62%

28 May 99

[Find Similar](#)

<http://www.tm.agilent.com/tmo/press/English/PRTME600811.html> - size 23.0K

Test & Measurement: Agilent acceSS7 Network Monitoring System

Agilent acceSS7 is a distributed system that collects and analyzes messages from the SS7 links in a network.

62%

14 Jan 00

[Find Similar](#)

<http://www.tm.agilent.com/tmo/datasheets/English/acceSS7.html> - size 30.5K

HP LaserJet 5 Family Printers - Windows 95/98 and Access 7.0. Cannot Print Objects

Windows95

61%


21 Apr 00

[Find Similar](#)

<http://www.hp.com/cgi-bin/cposupport/cspt/ljxxxx/dyndocwrap.pl?lid=general&fid=bpl04034&pid=-> - size 18.4K

Agilent acceSS7 Network Monitoring System


<http://www.tm.agilent.com/tmo/HPacceSS7> - size 19.6K

60% 
31 Mar 00
[Find Similar](#)

HP Test & Measurement: HP'S ACCESS7 SYSTEM TO MONITOR "NERVOUS SYSTEM" OF SWISS TELECOM'S...

HP announces it has signed a \$3.2 million (CHF 4.1 million) deal with Swiss Telecom PTT to supply the government-owned company with its acceSS7 network monitoring ...


<http://www.tm.agilent.com/tmo/press/English/PRTM1400611.html> - size 22.7K

60% 
28 May 99
[Find Similar](#)

HP Test & Measurement: HP INTRODUCES ACCESS7 BUSINESS-INTELLIGENCE SOLUTION TO HELP NETWORK...

HP announces the HP acceSS7 business-intelligence solution.


<http://www.tm.agilent.com/tmo/press/English/PRTME600808.html> - size 24.5K

60% 
28 May 99
[Find Similar](#)

HP Test & Measurement: HP'S ACCESS7 BUSINESS-INTELLIGENCE SOLUTION DEPLOYED BY BELL ATLANTIC

HP announces that Bell Atlantic, a leading communications service provider in the United States, is one of the first companies to deploy the recently announced HP acceSS7.


<http://www.tm.agilent.com/tmo/press/English/PRTME600807.html> - size 24.3K

60% 
28 May 99
[Find Similar](#)

Test & Measurement: HP INTRODUCES ACCESS7 BUSINESS-INTELLIGENCE APPLICATIONS TO HELP...

HP introduces two HP acceSS7 business-intelligence applications.

<http://www.tm.agilent.com/tmo/press/English/PRTME600904.html> - size 25.2K

60% 
29 Jun 99
[Find Similar](#)

274 result(s) found, sorted by relevance

[sort by date](#) [hide summaries](#)

1-10

[Privacy Statement](#)

Use of this site indicates you accept the [Terms of Use](#).

© 1994-2000 Hewlett-Packard Company



Test & Measurement

Agilent acceSS7 Network Monitoring System

Agilent acceSS7 Network Monitoring System

Agilent acceSS7 is a distributed system that collects and analyzes messages from the SS7 links in a network. It is switch-independent, providing a comprehensive, impartial view of what is happening on the network, even during fault conditions.

For complete information about acceSS7 visit
our website at www.acceSS7.com

Agilent acceSS7 is widely accepted as the standard for SS7-based telecom network monitoring and data-mining. It now dominates the world market. The installed customer base for Agilent acceSS7 has increased to more than 60 companies in five continents, and includes many of the most successful network operators. It covers both large and small networks, wireless and wireline deployments. Over the years we have built up an excellent relationship with our customers, working with them to sharpen our understanding of the telecom network operators' business objectives.

Agilent acceSS7 - Gives you the Data you need

Agilent acceSS7 uses specially designed hardware to monitor SS7 links at selected nodes in your network, typically STPs or transit exchanges. The monitoring sites are interconnected, via a WAN, to a central server

Product Details

Key Specifications

Additional Information

Check here for related product, application, and support information for this product.

acceS\$7 Products & Applications

acceSS7 Technical Support

How To Buy

Ordering Information

**Find your local contact
to purchase this
product.**

Country Name

Go

Notify Me

You can change your profile to denote your interest in this product and ensure you receive news of future products enhancements or promotions.

Notify Me

Test & Measurement: Agilent acceSS7 Network Monitoring System

which configures and co-ordinates the activities of all sites. Users interact with the system by means of workstations connected to the central server.

Features

Agilent acceSS7 brings many benefits to your organization:

- Centralized network maintenance
- Monitoring all parts of the network in real-time
- Reduced time and labour for implementing new services
- Optimizing current network infrastructure
- Detecting Fraud as it happens
- Negotiating and supporting more effective interconnect agreements

Agilent Technologies is a subsidiary of Hewlett-Packard Company

[Privacy Statement](#)

[Use of this site indicates you accept the Terms of Use](#)

© 1994-2000 Agilent Technologies